IN THE CLAIMS

In the claims:

Please cancel claims 1, 4, 5, 7, 8, 10 and 13.

Please amend claim 2 and claim 11

- 1. Canceled
- 2. (currently amended) [The magnetic write head recited in claim 1,] A magnetic write head, comprising:

an optical element for providing a thermal gradient in a magnetic recording media, said optical element having an emitting surface; wherein said optical element is a very small aperture laser (VSAL)[.]; and,

a magnetic element for providing a magnetic field gradient
in the magnetic recording media, said magnetic element located on
said emitting surface.

- 3. (Original) The magnetic write head recited in claim 2, wherein said optical element includes a reflective film structure over the emitting surface, said reflective film structure having a small aperture for emission of laser light.
- 4. Canceled.
- Canceled.
- 6. (Original) A magnetic write head, comprising:

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a very small aperture laser (VSAL) having an emitting surface; a multilayer thin film structure over the emitting surface, said multilayer thin film structure having a very small aperture for emission of laser light from the VSAL, said multilayer thin film structure comprising:

a reflective conductive layer; and an insulating layer disposed between the reflective conductive layer and the emitting surface.

- 7. Canceled.
- 8. Canceled.
- 9. (Original) A magnetic read/write head, comprising: a write head, including:

a very small aperture laser (VSAL) having an emitting surface and a side surface;

a multilayer thin film structure over the emitting surface, said multilayer thin film structure having a very small aperture for emission of laser light from the VSAL, said multilayer thin film structure comprising:

a reflective conductive layer; and
an insulating layer disposed between the reflective
conductive layer and the emitting surface;

a read head, including:

first and second magnetic shield layers;

first and second nonmagnetic gap layers disposed

between said first and second magnetic shield layers;

a magneticoresistive sensor disposed between said first and

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second nonmagnetic gap layers; and an interface layer disposed between the read head and the side of the VSAL.

- 10. Canceled.
- 11. (currently amended) [The disk drive system recited in claim
- 10,] A disk drive system, comprising:
 - a magnetic recording disk;

a magnetic read/write head for magnetically recording data
on the magnetic recording disk, said magnetic read/write head
comprising:

a magnetic write head, including:

an optical element for providing a thermal gradient in a magnetic recording media, said optical element having an emitting surface and a side surface wherein said optical element is a very small aperture laser (VSAL)[.]; and

a magnetic element for providing a magnetic field gradient in the magnetic recording media, said magnetic element located on said emitting surface;

a magnetic read head adjacent to said side surface, said read head including a magnetoresistive sensor;

an actuator for moving said read/write head across the

magnetic disk so that the read/write head may access different

regions of the magnetic disk; and

a recording channel coupled electrically to the write head

for magnetically recording data on the magnetic recording disk

and to the magnetoresistive sensor of the read head for detecting

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changes in the resistance of the magnetoresistive sensor in response to magnetic fields from the magnetically recorded data.

- 12. (Original) The disk drive system recited in claim 10, wherein said optical element includes a reflective film structure over the emitting surface, said reflective film structure having a small aperture for emission of laser light.
- 13. Canceled.
- 14. (Original) A method of writing data on a magnetic recording media comprising the steps of:
- (a) providing a write head including a magnetic element for providing a magnetic write field gradient and a thermal element for providing a thermal gradient in the magnetic recording media;
- (b) providing a thermal spring magnetic recording media having first and second Curie temperatures;
- (c) heating a region of the magnetic recording media moving with respect to the write head to a temperature between said first and second Curie temperatures by using light emitted from said thermal element; and
- (d) applying a write current to the magnetic element to induce a magnetic write field at the region of the magnetic recording media heated by the thermal element and having a thermal gradient as it cools below said first Curie temperature.

- 15. (Original) The method of writing data recited in claim 14 wherein said magnetic write field provides a magnetic write field gradient coincident with and overlapping the thermal gradient in the magnetic recording media as it cools below said first Curie temperature.
- 16. (Original) The method of writing data recited in claim 14 wherein said thermal gradient is present at a trailing end of the region of magnetic recording media heated by the thermal element as it moves relative to the write head.
- 17. (Original) The method of writing data recited in claim 14 wherein said thermal element comprises a very small aperture laser (VSAL).
- 18. (Original) The method of writing data recited in claim 14 wherein the magnetic element comprises a conductive layer for conducting a write current in a direction perpendicular to the motion of the magnetic recording media relative to the write head.
- 19. (Original) The method of writing data recited in claim 14 wherein the magnetic element comprises a ferromagnetic pole structure for providing a magnetic write field induced by a write current flowing in a conducting coil.
- 20. (Original) The method of writing data recited in claim 14 including the further step of:
- (e) adjusting the intensity of the light emitted from the thermal element to provide coincidence of the thermal gradient